



## Description

Synthetic corrugated filtering cell with U section frame in galvanized steel, double corrugated net in electro-welded galvanized wire that supports the polyester synthetic fiber filtering fabric.

## Characteristics

Material : galvanized steel support frame 6/10 thick.  
Electrowelded galvanized wire mesh 12x24x0,8.  
EFRF 200 g/m filter media.

## Use

Pre-filtration in air ventilation and air conditioning systems.

The corrugated version guarantees a greater filtering surface with the same size.

The proportion between the filter surface and the front surface is 2:1 with 48 mm thickness and about 3:1 with 98 mm thickness.

## On demand

Non-standard front dimensions.  
Special thicknesses from 40 to 200 mm.

## Operating data

Pa : pressure drop in Pascal.

Caratteristiche tecniche e limiti di impiego	
CLASSE di efficienza secondo EN ISO 16890:2016	ISO COARSE
Classe di efficienza (CEN EN779-2012):	G4
Efficienza gravimetrica media:	90%
Grammatura tessuto filtrante	200 gr/mq
Temperatura massima di impiego:	100°C
Umidità relativa:	100%
Perdita di carico iniziale:	43Pa
Perdita di carico finale consigliata:	250Pa
Perdita di carico massima:	400Pa
Capacità di raccolta polvere:	351gr/mq
Velocità frontale consigliata:	1,5m/s
Rapporto superficiale filtrante/superficie filtro:	2:1 per lo spessore 48mm 3:1 per lo spessore 98mm
Reazione al fuoco (DIN53438/3):	CLASSE F1
Reazione al fuoco NF-F-16-101	M1

## Dimensions and price list

Dimensions are expressed in mm

Item normally available from stock		
model	filter cell EFPO	filter cell EFPO
	thickness 48	thickness 98
	euro	euro
400x400	14,48 ∨	21,38 ∨
500x400	14,48 ∨	21,38 ∨
625x400	16,35 ∨	23,89 ∨
500x500	16,35 ∨	23,89 ∨
625x500	18,36 ∨	27,68 ∨
592x592	20,23 ∨	30,12 ∨
592x287	14,48 ∨	21,38 ∨
490x592	18,36 ∨	27,68 ∨

## How to calculate the filter capacity:

$Q$  (mc/h) =  $A$  (mq) x  $V$  (m/s) x  $K$  x 3600 **A**: filter surface, **V**: air velocity and **K**: multiplication constant ( equal to 2 for thickness 48 mm and equal to 3 for thickness 98 mm). **EXAMPLE OF CALCULATION OF THE AIR FLOW CAPACITY OF A 400x400 FILTER, 48 mm THICKNESS:**  $Q = (0,4 \times 0,4) \times 1,5 \times 2 \times 3600 = 1728$  mc/h